

Engineering CO₂OLtec™: Experience-based Know How

DÜSSELDORF, Germany, Feb. 23, 2008 — Carrier's innovative concept CO₂OLtec™, which debuted at EuroShop 2005, offers welcome relief to food retailers concerned about global warming and the environment. Carrier Corp. is a unit of United Technologies Corp. (NYSE:UTX). Carrier's refrigeration systems and display cabinets offer energy saving features that provide financial benefits to food retailers. In addition, the use of natural refrigerant carbon dioxide (CO₂) offers food retailers an environmentally sound solution.

Carrier has the right refrigerant solution for every application, but believes that every application will not have the same refrigerant solution. In supermarket refrigeration, CO₂ can be used as a natural and cost-effective refrigerant*. The CO₂OLtec™ technology, based on CO₂, is a viable long-term solution that does not fall under the scope of the EU F-gas regulation 842/2006, and significantly reduces direct and indirect emissions. CO₂ refrigerant operates via compressors that produce very low noise levels. Smaller pipe diameters are possible too, due to the 4- to 6-fold higher volumetric cooling capacity of CO₂.

The application of CO₂ for deep temperature installations in 2000 cleared the way for the new technology. With the first trans-critical refrigeration plant for normal temperature installed in a hypermarket in 2004, the concept expanded. Today, Carrier's CO₂OLtec™ system is gaining traction in the European food retail segment, with particular success in Switzerland, Germany and Scandinavia. For low temperature applications, 120 stores with a total of 3,900 kW installed cooling capacity are in operation today; in addition 22 stores are equipped with CO₂OLtec™ technology for medium temperature with a total capacity of 4,000 kW. In 2005, Carrier received the "Cooling Industry Award" for its innovative use of CO₂. At EuroShop 2008, Carrier has several refrigeration systems on display based on CO₂OLtec™ technology. Computer animations illustrate the technique and explain the differences with traditional refrigeration concepts. For more information about Carrier's complete line of refrigeration systems, please visit www.carrier-refrigeration.de.

About Carrier Corp.

Carrier Corp., headquartered in Farmington, Conn., is the world's largest provider of heating, air-conditioning and refrigeration solutions. With 2007 revenues of \$14.6 billion, Carrier has approximately 43,000 employees worldwide and operations in more than 170 countries. Carrier is part of United Technologies Corp., a Hartford, Connecticut-based provider of products and services to the aerospace and building systems industries worldwide. Visit www.carrier.com for more information.

